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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/926,641	11/28/2001	Nobuya Matsuoka	215869US0PCT	5497	
22850	7590 05/05/2004		EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			COVINGTON, RAYMOND K		
			ART UNIT	PAPER NUMBER	
			1625		
			DATE MAILED: 05/05/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No.	Applicant(s)				
Office Action Summary		09/926,6	i41	MATSUOKA ET AL.				
		Examine	r	Art Unit				
		Raymond	d Covington	1625				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHO THE I - Exter after - If the - If NO - Failur Any r	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply we pely received by the Office later than three months after the period for reply we patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no endication. days, a reply within the stautory period will apply and will, by statute, cause the ap	vent, however, may a rep atutory minimum of thirty (will expire SIX (6) MONTH plication to become ABA	oly be timely filed (30) days will be considered timely HS from the mailing date of this of NDONED (35 U.S.C. § 133).	ly. communication.			
Status								
1)[Responsive to communication(s) filed	on 14 April 2004						
· —)⊠ This action is i	non-final.					
/_	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
 4) Claim(s) 4-8,13,14,22,27,28,31-34 and 36-54 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 4-8,13,14,22,27,28,31-34 and 36-54 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 4-8,13,14,22,27,28,31-34 and 36-54 are subject to restriction and/or election requirement. 								
Applicati	on Papers							
9) 🗌 -	The specification is objected to by the	Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment	• •		o.□		·			
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTo nation Disclosure Statement(s) (PTO-1449 or P No(s)/Mail Date <u>4/14/04</u> .			Mail Date brmal Patent Application (PTC)	D-152)			

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Applicants' comments regarding the restriction requirement have been noted and considered. However, the requirement is deemed sound for reasons of record.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process

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claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 4-8, 13, 14, 22, 27, 28, 31-34, and 36-54 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention.

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The instant specification invites the skilled artisan to experiment. The factors which must be considered in determining undue experimentation are set forth in <u>Ex</u> parte Forman 230 USPQ 546. The factors include:

- 1) Quantity of experimentation necessary,
- 2) The amount of guidance presented,
- 3) The presence or absence of working examples,
- 4) The nature of the invention,
- 5) The state of the prior art,
- 6) The predictability of the art,
- 7) Breath of the claims and
- 8) The level of skill in the art.

Applicants' comments have been noted and considered but are not deemed persuasive of patentability. There is insufficient disclosure of starting materials that would place such a diverse genus of compounds containing both heterocyclic and non-heterocyclic moieties in possession of the public in the event of a patent grant. In addition, there is no reasonable assurance that such an alleged genus of compounds would possess all of the alleged properties for use. With respect to the method claims in particular it is noted that the pharmaceutical art is unpredictable, requiring each embodiment to be individually assessed for physiological activity. In re Fisher, 427 F. 2d 833, 166 USPQ 18 (CCPA 1970) indicates that the more unpredictable an area is, the more specific enablement is necessary in order to satisfy the statute. In the instant case, the instantly claimed invention is highly

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unpredictable since one skilled in the art would recognize that in regards to the therapeutic effects of all diseases.

Claim Rejections - 35 USC 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-8, 13, 14, 22, 27, 28, 31-34, and 36-54 are rejected under 35

U.S.C. 103(a) as being unpatentable over Oku et al US 5,250,528.

Determination of the scope and content of the prior art (MPEP 2141.01)

Oku et US '528 teach piperazine derivatives of the type recited in the claims. Se, for example, column 1 lines 55+ and column 3 lines 1+.

Ascertainment of the difference between the prior art and the claims (MPEP . 2141.02)

Patentees differ from the claimed invention in that the full scope of the recited claims is not exemplified in the disclosure.

Finding of prima facie obviousness--rational and motivation (MPEP 2142-2413)

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However, the claimed invention would have been obvious to one of ordinary skill in the art as the Oke US '528 taken as a whole discloses the recited claims. Further as to applicants' intended use, it is not required that the prior art disclose or suggest the properties newly-discovered by an applicant in order for there to be a prima facie case of obviousness. See In re Dillon, 919 F.2d 688, 16 USPQ2d 1897, 1905 (Fed. Cir. 1990). Moreover, as long as some motivation or suggestion to combine the references is provided by the prior art taken as a whole, the law does not require that the references be combined for the reasons contemplated by the inventor. See In re Beattie, 974 F.2d 1309, 24 USPQ2d 1040 (Fed. Cir. 1992); In re Kronig, 539 F.2d 1300, 190 USPQ 425 (CCPA 1976) and In re Wilder, 429 F.2d 447, 166 USPQ 545 (CCPA 1970).

Claims 4-7, 33, 39, 40, 49 and 53 are objected to because of the following informalities: The phraes "An agent for expression of long-term potentiation of synaptic transmission..." is objected to as it is not clear whether the claim is intended to be a compound or method claim. Appropriate correction is required.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond Covington whose telephone number is (703) 308-4704. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J. McKane can be reached on (571) 272-0699. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pairdirect.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Raymond Covington Examiner Art Unit 1625